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PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/998,093	1	11/29/2001	Paul E. Juras	61856	4334
109	7590	06-09-2003			
THE DOW CHEMICAL COMPANY INTELLECTUAL PROPERTY SECTION P. O. BOX 1967				EXAMINER	
				CHANG, VICTOR S	
MIDLAND, MI 48641-1967			ART UNIT	PAPER NUMBER	
				1771	E
				DATE MAILED: 06/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/998,093	JURAS ET AL.
Office Action Summary	Examiner	Art Unit
	Victor S Chang	1771
The MAILING DATE of this communication appriod for Reply		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute  - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of thi will apply and will expire SIX (6) MO e, cause the application to become A	reply be timely filed  irty (30) days will be considered timely.  INTHS from the mailing date of this communication.  INTHS MANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on		
	— · nis action is non-final.	
Since this application is in condition for allow closed in accordance with the practice under isposition of Claims	ance except for formal ma	
4) Claim(s) 1-10 is/are pending in the application	n.	
4a) Of the above claim(s) is/are withdra	wn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1-10</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	or election requirement.	
pplication Papers		
9) The specification is objected to by the Examine		
10) The drawing(s) filed on is/are: a) acce		
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '
11) The proposed drawing correction filed on  If approved, corrected drawings are required in re		disapproved by the Examiner.
12) The oath or declaration is objected to by the Ex		
riority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreig	n nrigrity under 35 H.S.C.	8 119(a)-(d) or (f)
a) ☐ All b) ☐ Some * c) ☐ None of:	in priority under 00 0.0.0.	3 113(d) (d) 01 (1).
1. Certified copies of the priority document	ts have been received	
Certified copies of the priority document		Application No
3. Copies of the certified copies of the prior		<del></del>
application from the International But See the attached detailed Office action for a list	ureau (PCT Rule 17.2(a)).	· ·
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C	. § 119(e) (to a provisional application)
a) The translation of the foreign language pro		
ttachment(s)		
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.5.

6) Other:

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it is suggested to cancel the phrase "The present invention is".

In claim 1, line 8, the phrase "in contact with" is vague and indefinite, the Examiner suggests to replace it with a more substantive term, such as e.g., "coated with".

For claims 2, 6 and 8, the Examiner suggests to re-write each claim in proper Markush format.

## Claim Rejections - 35 USC § 103

- **3.** The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thum (US 5194199) either individually, or in view of Newton (US 3581681).

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Thum's invention is directed to a structural part for vehicle construction. The part is formed of a hollow metal member and a <u>prefabricated reinforcing core of light-weight material</u> with a shell of <u>heat-foamable material</u> with integral support beams (Abstract). Thum teaches that the core of light weight material may be a hard <u>polyurethane or aluminum foam</u> (column 2, lines 17-19). A suitable starting material for the shell is a mixture of capsules containing different components of a polyurethane material which, when mixed, will foam and harden upon application of heat (column 2, lines 38-44). It is believed that Thum's expandable polyurethane "shell" inherently reads on the heat—activated expandable adhesive of the instantly claimed invention.

For claims 1-6, it is noted that although Thum lacks an express teaching of a molded polymer shell, it is nevertheless believed that forming a light weight composite of molded shell and foam core is old and well known. Alternatively, Newton's invention is directed to a molded pallet having a construction of a thin-walled shell filled with a foam core (Abstract). The shell is shaped in the general configuration of a conventional pallet (column 1, lines 50-52). The shell material may be selected from a broad range of resinous sheet materials, including cellulose esters, polyamides, polyolefin, etc. (column 2, lines 30-50). Newton also teaches that a core of rigid polyurethane foam is cast in place in the shell to substantially fill the entire interior (column 3, lines 32-33). As such, it would have been obvious to one of ordinary skill in the art to modify Thum's prefabricated reinforcing core of light-weight material with a light weight composite of molded shell and foam core, as taught by Newton, motivated by the desire to obtain a

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shaped core in the general configuration to fit the hollow metal member, and to provide

an integral support.

The method claims 7-10 essentially mirror the product claims, and employ only

conventional method steps, and as such are rejected.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Victor S Chang whose telephone number is 703-605-

4296. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Terrel H Morris can be reached on 703-308-2414. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-872-9310

for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

**VSC** 

June 4, 2003

DAMIEL ZIRKER PRIMARY EXAMINER GROUP 1300

Hamil Zinker

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